2. A device as claimed in claim 1, wherein the sensing means comprises an accelerometer or magnetometer sensor.

3. A device as claimed in claim 2, wherein the first part and the second part are rotatably connected for rotating with respect to each other in a clamshell movement and/or a swivel movement.

4. A device as claimed in claim 1, wherein the means for generating the orientation information is constructed for displaying the orientation information comprising an indication of a direction or of a text.

5. A device as claimed in claim 1, further comprising an open-closed detector for detecting whether the device is in an open state or in a closed state from the three-degrees-of-freedom orientation of the first part and the one-degree-of-freedom or the two-degrees-of-freedom orientation of the second part.

6. A device as claimed in claim 1, wherein the three-degrees-of-freedom orientation sensing system comprises an electronic compass.

7. A device as claimed in claim 1, wherein the three-degrees-of-freedom orientation sensing system comprises a three-dimensional accelerometer and a two-dimensional magnetometer.

8. A device as claimed in claim 1, wherein the sensing means for sensing an one-degree-of-freedom or a two-degrees-of-freedom orientation of the second part comprises:

an one-dimensional or two-dimensional sensor, producing sensor signals $\langle S_i \rangle = f_i(\beta,\xi)$.

9. A device as claimed in claim 8, wherein the sensing means for sensing an one-degree-of-freedom orientation of the second part comprises:

an one-dimensional accelerometer, producing an accelerometer signal $\langle A \rangle = u \cdot \cos\beta + v \cdot \sin\beta$, and

wherein the means for calculating the three-degrees-of-freedom orientation of the second part from the three-degrees-of-freedom orientation of the first part and the one-degree-of-freedom orientation of the second part are constructed for determining the scalars u and v from the orientation of the first part.

10. A device as claimed in claim 8, wherein the sensing means for sensing an one-degree-of-freedom orientation of the second part comprises:

an one-dimensional magnetometer, producing an magnetometer signal $\langle M \rangle = u \cdot \cos\beta + v \cdot \sin\beta$, and

wherein the means for calculating the three-degrees-of-freedom orientation of the second part from the three-degrees-of-freedom orientation of the first part and the one-degree-of-freedom orientation of the second part, are constructed for determining the scalars u and v from the orientation of the first part and the inclination angle of the second part with respect to the earth's magnetic field.

11. A device as claimed in claim 1, the device being a mobile phone.

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